

UNITED STATES DISTRICT COURT
FOR THE NEW HAMPSHIRE DISTRICT

Coronavirus Reporter

Plaintiff,

VS.

Apple Inc.

Defendant.

Case 21-cv-47-LM

**AMENDED COMPLAINT FOR
DAMAGES AND
INJUNCTIVE RELIEF**

DEMAND FOR JURY TRIAL

PLAINTIFF'S COMPLAINT FOR DAMAGES AND INJUNCTIVE RELIEF

I. INTRODUCTION

1. In February 2020, the Plaintiff formed an emergency *ad hoc* group of health care and computer science experts to develop a smartphone application named “Coronavirus Reporter.” The COVID-19 pandemic was named on February 11, 2020. The first death in France on February 14 was followed by an outbreak in Italy, and the United States reported its first death on February 29. The Coronavirus Reporter app was completed on March 3, 2020, at which time there was not a single Coronavirus app on the Apple iOS App Store. While some debate existed, most of the United States population, government scientists, and healthcare experts did not predict the rapid extent to which COVID would spread nationally and globally. Within a month, the United States led the world in confirmed cases, social distancing became a familiar term, and millions lost their jobs.
2. The Coronavirus Reporter application (“the app”) was developed to capture and obtain critical biostatistical and epidemiological data as it happened. For the first time in the history of pandemics, social media could provide new insights of an entire population that simply could not be obtained from traditional doctor office visits and other screening methods. The app’s operation was a simple and familiar “geolocation” map where users would self-identify disease symptoms such as cough, fever, or other yet to be discovered symptoms.
3. In response to the emerging crisis, on March 3, the same day the app was complete, Apple announced that applications dealing with coronavirus would only be allowed from “recognized institutions such as government, hospital, insurance company, NGO, or a university.” Plaintiff’s app was rejected on these grounds. On appeal, Plaintiff requested

that Apple expand the rule to allow corporations other than insurance companies, such as biotechnology or bioinformatics firms. Apple agreed, and added “deeply credentialed” health care corporations to the list of permissible entities. Apple was then provided with supporting and sponsorship documentation, including the *curriculum vitae* of Coronavirus Reporter’s Chief Medical Officer, Robert Roberts M.D., FRCPC, FRSM, FACP, FESC, FAHA, FISHR, MACC, LLD (Hon.), FRSC. Dr Roberts invented the MBCK assay, the gold-standard test for detecting myocardial infarction (i.e. heart attack) used for three decades and regarded as one of the most effective screening tools in medical history. The MBCK test vastly reduced MI associated morbidity and mortality; in other words, Dr Roberts’ invention saved a very large number of lives.

4. As NASA Head Cardiologist during the Space Race, Dr Roberts personally signed off on John Glenn’s historic mission. Dr Roberts spent five years as a Board Director for the Nobel prize in mathematics, the Fields Medal.
5. After a very long twenty days of waiting, Apple informed Plaintiff that the Coronavirus Reporter app would not be permitted on the App Store. Apple made the appalling determination that Coronavirus Reporter lacked “deeply rooted medical credentials.” Apple also stated that the “user-generated data has not been vetted for accuracy by a reputable source.” In other words, Apple told Dr. Roberts that he, and his self-reported symptoms app model, were not “deeply rooted” in the world of medical credentials.
6. About one month after rejecting Plaintiff’s app, Apple permitted several employees at a London teaching hospital to distribute a COVID app on the App Store that functioned nearly identically to Coronavirus Reporter. That competing app obtained the so-called first mover advantage, and is currently used by five million individuals daily.

7. In the following months, Apple formed a partnership with Google and several other universities to create a contact-tracing COVID app. After much delay, the contact-tracing App launched in Summer 2020. Although contact tracing has worked in some limited scope, much resistance in this country exists. The Apple contact tracing app generally underperformed expectations and failed to obtain a user base in the United States. Nonetheless, research by a Turing/Oxford team into the epidemiological impact of the app suggests the UK version of the app has prevented 600,000 coronavirus cases since it was launched.
8. Plaintiff's app was ready months before other world-class COVID app products, and would likewise have prevented deaths in the US and other countries where the NHS/Apple app did not succeed. Deaths would have been prevented through both the informal contact tracing geolocation functionality, as well as "situational awareness" offered by Plaintiff's app that does not exist in the UK/Apple app. Apple's denial of the Coronavirus Reporter app resulted in unnecessary deaths.
9. The Sherman Act prohibits monopolization of any part of the trade or commerce among several States, or with foreign nations. Likewise, the Sherman Act prohibits every contract or conspiracy in restraint of trade among several States, or with foreign nations.
10. The internet was developed by DARPA, a research and development division of the United States Department of Defense. ARPANET was the first packet switched distributed TCP/IP network, the backbone foundation of what we today call the internet. This military research endeavor aimed to provide resilient data transmission infrastructure linking persons around the country and the globe. Considerable taxpayer dollars funded DARPA, and continue to fund urban and rural infrastructure rollout of

TCP/IP (internet) data services through fiber optics, wireless spectrum allocations, and other ongoing network infrastructure deployments.

11. The COVID pandemic serves as a prime example of how ARPANET and its subsequent implementations is particularly well-suited for communication during a national emergency.
12. As ARPANET and the internet developed over time, many of its characteristic distributed networking features have become compromised by the growth of corporate entities that control vast access points. Of particular concern is that unfettered growth of a monopolistic trust, as defined by the Sherman Act, could seriously restrict interstate commerce, and the free exchange of information. A computer scientist who writes software applications that rely upon a free and open internet may be encumbered, should one of these monopolistic trusts destroy access to the internet's free markets and information exchanges.
13. Defendant Apple Inc. did just that, denying millions of citizens the benefit of communicating in a pandemic emergency using an app designed by a world renowned physician. Indeed, that physician had particular experience in dealing with novel medical situations as exemplified by the fact that he personally gave astronauts the green light to explore uncharted territory.
14. Nearly 60% of users and 80% of paid internet commerce access the national internet backbone using Apple devices. For many millions of these users, their *de facto* access to the internet relies upon using an iOS device. Consider, for example, children or elderly who have been taught to access the internet using a relative's Apple device and have

absolutely no reasonable alternative. As such, Apple operates a *de facto* monopoly for access to the national internet communication backbone.

15. Apple has restricted trade, communication, and free information exchange, all in violation of the Sherman Act, when it disallowed Plaintiff's reasonable application.

II. JURISDICTION AND VENUE

12. Venue in the New Hampshire District is proper under 15 U.S.C. § 22, which states that any suit proceeding under antitrust laws against a corporation may be brought in any district where it transacts business. Apple transacts business in New Hampshire. Additionally, some officers of the Plaintiff corporation reside in New Hampshire and did not personally waive venue via the Apple Developer Agreement. It is also alleged that the venue waiver is a monopolistic contract that is forced upon any developer who wishes to make applications that access the national internet backbone, and is itself a violation of the Sherman Act. Furthermore, it is alleged that Apple would have an unfair advantage if all antitrust actions had to be litigated in the Northern California district, where Apple employs tens of thousands of individuals.

13. Jurisdiction in this Court for a permanent injunction arises under 28 U.S.C. § 1331, for federal questions presented pursuant to 15 U.S.C. § 26 (Clayton Antitrust Act). Diversity jurisdiction is invoked pursuant to 28 U.S.C. § 1332 because the parties reside in different districts and the amount in controversy exceeds \$75,000.

III. PARTIES

14. Plaintiff Coronavirus Reporter is a Wyoming Corporation with officers based in New Hampshire, Vermont, and Upstate NY. Coronavirus Reporter is also the name of the Plaintiff's iOS application, which uses the national internet background to allow citizens

to self report and geolocate emerging pandemic trends. Plaintiff previously transacted business under the name Calid. Plaintiff asserts standing as both a corporation, and additionally as the collective individual persons comprising the corporation, who have no contractual relationship with the Defendant and never signed the Apple Developer Agreement. Dr Roberts never signed any waiver or contract with Apple pertaining to the distribution and access to his medical scientific work product.

15. Defendant Apple Inc. is a California corporation with its principal place of business in Cupertino. Apple is the largest public company in the world, with a current market capitalization of approximately \$3 trillion. Apple designs, markets, and sells smartphones (the iPhone) and computers (the Mac), which functionally rely upon and profit immensely from access to the taxpayer-funded national internet backbone. Apple owns and operates the App Store, which serves as a distribution gateway to the national internet backbone for third-party developers. Pending related litigation against Apple alleges that Apple violates antitrust law by disallowing competing app stores designed by third parties. Notably, this lawsuit does not seek remedy in the form of additional “app stores,” rather it seeks an injunction preventing the Apple App Store from disallowing applications of reasonable intention, of adequately functionality, and of legal subject matter. In other words, the Apple App Store violates antitrust law by disallowing third-party applications using arbitrary and capricious standards meant to camouflage Apple’s own self-interest and growth of their monopolistic trust.

IV. FACTUAL HISTORY

16. Introductory paragraphs preceding this paragraph are asserted herein and responsive pleading is hereby noticed as necessary.

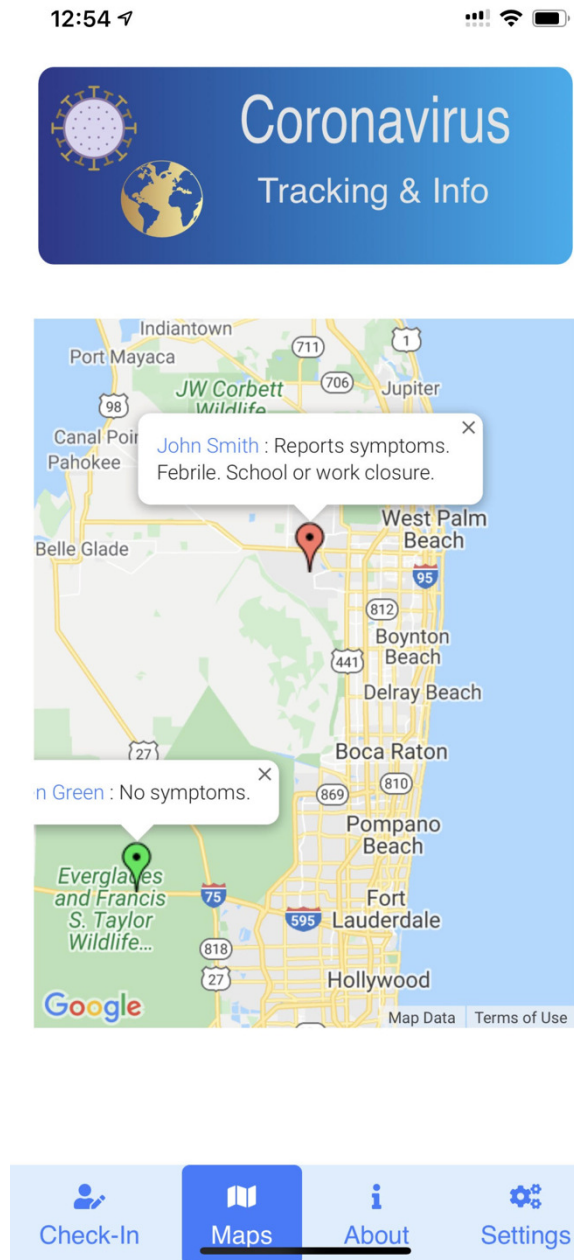
17. Apple operates the App Store, and has exclusive control over iOS applications and their ability to access that national internet backbone.
18. The national TCP/IP internet backbone was built, at least in part, using taxpayer dollars for ARPANET.
19. Apple has profited immensely from the existence of the national internet backbone.
20. Without the internet, and the taxpayer dollars that built it, Apple would not enjoy the \$2 trillion valuation it has amassed.
21. The Apple smartphone ecosystem is primarily a graphical user interface software (iOS) and hardware configuration, connecting users to the national internet backbone.
22. Apple initially developed the App Store to serve as a quality control gateway, ensuring apps functioned to a satisfactory standard and didn't contain software bugs or illegal content.
23. Over the years, Apple has taken a more authoritarian approach to the App Store and has rejected and/or disallowed significant numbers of third-party applications.
24. At the time Plaintiff submitted Coronavirus Reporter to the App Store, there were zero coronavirus-specific apps on the United States App Store. A keyword search for COVID or Coronavirus yielded no results.
25. Plaintiff's nimble team allowed it to create the first COVID app by a world renowned researcher, and what would have been the first COVID app on the App Store. The team included NASA's former Head Cardiologist, as well as a front-line Emergency Room physician and a Dartmouth trained computer scientist who personally developed apps used by half a billion users. Dr Roberts had full and final authority over all functionality of the medical app, as Chief Medical Officer of Coronavirus Reporter. In short,

Coronavirus Reporter was developed by a world-class medical team with specific area expertise necessary and appropriate to combine health care epidemiology research with large-scale data operations. This combined expertise would allow Plaintiff's COVID app to be first-to-market.




26. The Coronavirus Reporter app was developed in February 2020. The app team, and the application they developed, was a reasonable application, and, most importantly, was ready for deployment when COVID was just arriving in the United States. The Coronavirus Reporter app, had it been allowed, would have provided useful bioinformatics data, and provided a medium for free information exchange among United States citizens and COVID patients.


27. As such, functionality and early availability of Coronavirus Reporter would in all likelihood have prevented substantial morbidity and mortality. Expert analysis will be presented at jury trial showing that Apple's refusal of Plaintiff's app caused no less than two-thousand deaths in the United States.

28. The app provided both informal contact tracing, and pandemic situational awareness. This was implemented using a familiar and intuitive geolocation screen to report symptoms and view nearby outbreaks.



29. Little was known about COVID symptoms at the time, and the app was meant to develop with nimbleness and plasticity as situations emerged. In other words, the same skills Plaintiff employed to have the first COVID app, would allow for many future-improved versions that could advance epidemiological study of the pandemic.

12:55   



Coronavirus

Tracking & Info

Your Name:

John Smith

Share Your Health Status:

☐ I do not have any COVID Symptoms

☒ I have symptoms (e.g. Fever, Cough, Aches)

☒ I have a Fever/Temperature above 100°F (38°C)

Test Results:

☒ I have not been tested for COVID-19

☐ I have been tested


☐ I tested positive for COVID-19


Other Lifestyle Impact:


☒ School or Work Closure


Quarantine due to travel/exposure:

☒ I am in Self-Quarantine

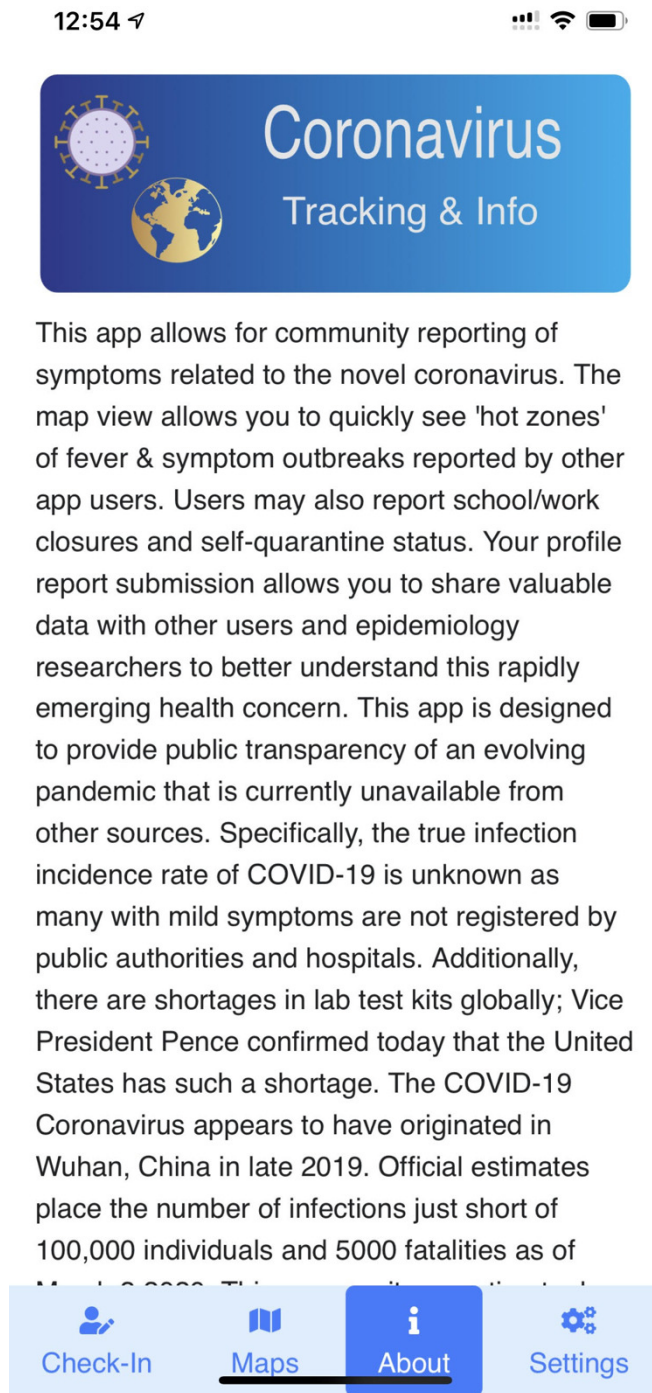

Check-In


Maps


About


Settings

30. The app sought user reported symptoms and COVID related questionnaire items. The public demanded this information that simply wasn't yet available from mainstream medical institutions. In other words, a social media/crowdsourced app provided a useful tool for pandemic situational awareness.



31. Apple rejected Coronavirus Reporter on March 6, 2020, knowing others were in the pipeline but not yet ready. Apple specifically strategized to prevent Plaintiff's app from setting a precedent or amassing a user base, which could jeopardize its own pipeline

and/or the first-mover advantage of desirable institutional partners of a monopolistic trust.

32. In the weeks following the initial rejection, with knowledge of Plaintiff's correspondence, Apple broadened the App Store requirements for a COVID app from insurance companies to any healthcare company with deep-rooted credentials.

33. Despite expanding the App Store guidelines to any healthcare company, Defendant Apple denied the appeal and permanently disallowed the app on March 26, 2020. Apple internal discussions with its own partners, at the time, were already discussing their own proprietary COVID app. Apple was also looking to form partnerships with other leading institutions to develop COVID apps, that would further cement Apple's own monopolistic trust and medial endeavors. Apple's CEO Tim Cook has widely stated that healthcare is a major focus in Apple's strategic growth. On January 9th, 2019, Mr. Cook stated that Apple's "greatest contribution to mankind" will be Apple health care products. Blocking well established medical leaders from contributing to a pandemic raises serious questions that within the scope of antitrust law that shall be elucidated in this complaint.

34. Apple's twenty-day delay in assessing Dr Roberts' deep credentials suggests they struggled internally with the matter. Ultimately, Apple decided it would rather selectively choose apps that fit its own goals, even if that meant forbidding a world renowned doctor from distributing his scientific work product.

35. Plaintiff asserts this is the first time in history a corporation was able to prevent a Professor of Medicine and award winning inventor, who had saved countless lives through his MBCK discovery, from contributing to an emergency pandemic.

36. Indeed, Apple did knowingly and willfully prevent the inventor of MBCK from publishing a COVID app.
37. Defendant Apple knowing and willfully prevented Dr Roberts, inventor of a heart attack test used by millions, from assisting internet users during the early days of the pandemic. They knew, or should have known, that curtailing such expert assistance could have caused increased incidence and mortality due to COVID-19.
38. Apple's willful denial of Dr Roberts' medical app was directly assented to by key Apple leadership. These leaders willfully blocked an app that would have saved lives, according to their own research in conjunction with Oxford (see below). In doing so, Apple disregarded long-established medical social norms to an extent that was breathtaking.
39. Apple's App Review Board did not possess anyone with better COVID insight or credentials Plaintiff's Chief Medical Officer, though Apple acted as if they did have some sort of superior knowledge.
40. Plaintiff's Chief Medical Officer created work-product, the app, that could have benefitted millions. Apple used arbitrary and capricious standards to prevent that benefit from being made reality.
41. Apple is a monopoly as defined by the Sherman Antitrust Act.
42. Apple has the ability to, and has in the past, restrained legally permissible, reasonable internet trade.
43. Apple possesses vast userbase studies. Consumer willingness to pay and ability to pay studies have been a focus of Apple, Inc. Included in these studies, are evidence of the barriers and difficulties their users would face in accessing the internet without their Apple device. For example, a user who purchased a \$1000 iPhone on a financing plan

may not have the financial means to access the internet with an alternate device. Apple has substantial investments in cost-analysis literally tracking every penny its users does and can spend. From these vast economic studies, Apple knows it holds monopoly like power over many users' ability to exit the Apple ecosystem and access the internet through other means. Apple should produce all such economic data, under FRCP discovery rules, should they purport no such monopolistic controls exist.

44. Plaintiff is a startup that has no income stream, because of Defendant's illegal actions.

Apple, on the other hand, is the world's largest corporate entity and has appointed a law firm to represent this case where the average partner brings in over \$4 million a year in revenue. To assist in the enforcement of the Sherman Act, Plaintiff has requested help from the United States Attorney for the prosecution of Apple's anticompetitive behavior.

45. In June 2020 Apple publicized that, in light of complaints from developers of unfair rules, they would be allowing developers to challenge the App Store rules. Previously, Apple said developers could only challenge the factual findings of an app review, within the rules guidelines. But in fact, Apple had allowed Plaintiff to challenge the rules as it did in March 2020. Nonetheless, the rules change did not benefit Plaintiff, as Apple still found an arbitrary and/or capricious interpretation of the new rules.

46. In short, Apple's "self-policing" of its monopolistic Developer Agreement was a sham, for lack of a better word. It had no tangible, real impact on Apple's stronghold of the App Store and free and open internet access. *See <https://www.cnbc.com/2020/06/22/apple-will-provide-a-way-for-app-makers-to-challenge-app-store-rules.html>.*

47. Defendant Apple stated the reason for denial was that a) Plaintiff was not a recognized healthcare entity, and b) the "user-generated data wasn't vetted by a reputable source."

48. In so doing, Apple was saying that citizens shouldn't be allowed to post on a private application their symptoms of COVID, and that Dr. Roberts' app model was inappropriate.
49. In so doing, Apple was infringing upon the right of Plaintiff, as well as ordinary citizens and COVID patients to engage in free, unrestricted commerce and information exchange on the internet.
50. Defendant Apple allowed at least two competing COVID apps approximately one to three months after Plaintiff's app was ready. This caused Plaintiff to lose the valuable first-mover advantage of an internet app.
51. Apple allowed a similar British app from Guy's St Thomas' hospital to enter the App Store. Although it was sponsored by an institution, the app was primarily the work-product of several individuals, as was the Plaintiff's app. This app quickly achieved millions of users a day. Had Plaintiff's app been rightfully approved, Plaintiff's app would have received a significant share of the volume that went to competitor apps.
52. In a second example of their arbitrary standards, Apple approved a fledgling Florida startup's COVID app. That startup did not have a Chief Medical Officer with the qualifications of Plaintiff's. That startup did not have a large-scale data computer scientist from Dartmouth, as did Plaintiff's, which had written apps that served hundreds of millions users. In other words, there exists no reasonable argument that the Florida startup app should have been permitted access to the internet, when Plaintiff's app was denied.
53. Allowing the aforementioned competing apps, but disallowing Plaintiff's, was arbitrary and capricious restraint of trade.

54. Apple's contact-tracing app was developed in conjunction with Google.
55. Apple and Google, combined, effectively provide internet access to the entire United States population.
56. By disallowing Plaintiff's app and partnering with Google to provide a COVID app that ultimately failed its objectives, Defendant Apple's monopolistic practices caused a permanent loss of valuable epidemiological bioinformatics data. This loss spanned one to three months, the time during which no competing apps existed in the US marketplace. Valuable epidemiological data was forever lost during that duration.
57. Access to the national internet backbone is theoretically possible without using Apple or Google products, such as with a generic UNIX web browser.
58. In practicality, many individuals, especially elderly and children, only learn how to access the internet using a friend or relative's Apple device. Additionally, GPS location data does not typically exist on a generic web browser. As such, economically efficient geolocation of symptoms was only possible using either Apple's smartphone, or Google's.
59. As such, Apple is a *de facto* monopoly of access to the national internet backbone.
60. There exists tens of millions of individuals in the United States who do not know how to access the internet without using an iOS device.
61. These individuals rely upon access to the internet to perform critical commerce activity, engage in protected free speech, and obtain lifesaving medical advice and treatments.
62. A third-party developer such as Plaintiff, seeking to help facilitate those above enumerated activities, is required to sign Apple's Developer Agreement and ask permission from Apple to distribute their application.

63. There were no reasonable grounds for Apple to deny the Coronavirus Reporter app for public distribution.
64. Apple has an App Review Board that decides which apps it will permit on the App Store.
65. The App Review Board has denied substantial numbers of legitimate, reasonable applications, representing thousands of man-years of work and labor, collectively. Plaintiff, the app team individuals, have personally witnessed the inappropriate rejection of four apps representing eight man-years, and asserts claims herein for all illegally restrained app work. The exact number of man-years illegally wasted by Apple, possibly tens of thousands, will be sought under early FRCP discovery rules.
66. When the App Review Board denies an app, they assign this to a junior staff member who must make the unpleasant call to a developer team to inform them that their team's work of months or years is being denied access to the global internet backbone.
67. These are often difficult conversations that understandably cause distress for both parties. Upon information and belief, Apple's junior App Review Board employees (who are only known to the developers on an informal first name basis) suffer considerable psychological distress from repeatedly shooting down the dreams, and years of work-product of the app developers.
68. In short, Apple has junior App Store employees do their "dirty work" of unreasonably disallowing perfectly legal and legitimate apps that meet all standards and requirements.
69. The apps are, in fact, disallowed to foster Apple's monopolistic goals, rather than to protect the public from low-quality or illegal applications. Upon information and belief, Apple routinely employs cronyism when it allows one developer's app, but disallows similar apps from other developers. This is particularly evident and distressing to the

aforementioned junior App Reviewers, who are aware they are misleading and/or lying to the other developers.

70. This well-known issue within the company is one reason Apple is aware that antitrust laws will, at some point, challenge the *status quo*. On February 22, 2021, Apple's CEO Tim Cook notified Apple Shareholders that antitrust compliance is a future risk to Apple's profits. Included in the memorandum is new language: "The Audit Committee and Board regularly review and discuss with management Apple's antitrust risks. Apple's Antitrust Compliance Officer is responsible for the development, review, and execution of Apple's Antitrust Compliance Program and regularly reports to the Audit Committee. These reports cover, among other matters, the alignment of the program with Apple's potential antitrust risks, and the effectiveness of the program's design in detecting and preventing antitrust issues and promoting compliance with laws and Apple policies."
71. Discovery will demonstrate that Apple is aware of numerous instances, such as Coronavirus Reporter, where they violated antitrust law by disallowing reasonable use of their devices and App Store, restraining interstate commerce.
72. The Electronic Frontier Foundation (EFF) is a non-profit that endeavors to maintain free computing practices. The EFF has long been concerned that Big Tech would someday prevent important internet applications from being realized. Historically, most internet applications were free and open-sourced, under the MIT/GNU software licensing paradigm. In the past decade, Defendant Apple has drastically changed the free, open internet to one of massive, trust-like corporate profits and control.

73. Apple has internal records that document numerous examples of how their market control, technology, and/or restrictive policies have willingly and unwillingly damaged smaller entities and individuals. Under FRCP, these records shall be produced by Apple.
74. As of the week of filing, at least two state governments (Arizona and Minnesota) and multiple friendly foreign governments (Australia, Canada) have announced legislation meant to prevent Big Tech companies like Apple from abusing their monopoly powers. As discovery will show, Apple is aware of numerous yet-announced government inquiries and preliminary legislation meant to address the type of wrongs Apple inflicted on Plaintiff.
75. Apple enjoys, nonetheless, an esteemed position in society which is reflected in its \$3trillion valuation. Antitrust Law, in theory, seeks to balance the cost to society of regulating a top performing, well admired company's value while assisting smaller companies harmed by the monopoly. In abstract terms, a sliding scale exists where antitrust enforcement saving thousands of companies the size of Plaintiff is weighed against the losses incurred by regulating a monopoly (Apple). In practicality, properly effected Antitrust regulation vastly benefits society by rescuing the value of smaller companies while allowing the monopoly to continue a legal value creation path. There exists no reason in theory why Apple could not also benefit from ceasing to engage in the anti-competitive acts describe herein, further increasing its value. Therefore, injunctive action to protect small entities does not, in theory, necessitate a zero-sum scenario at Apple's expense.

76. Dr Roberts was interviewed by CNBC on January 28th, 2021 about Apple's refusal to publish his Coronavirus Reporter. His statements in that interview are asserted as true to the best of his knowledge and belief. In summary, he stated:

- i. The app was designed to be a large-scale, supervised epidemiological study, the first of its kind in such an historic pandemic.
- ii. He invented the MBCK gold standard screening test for heart attacks, used for over three decades. Thus he had particular experience to supervise such an immense screening effort.
- iii. He was "taken aback," in his own words, when Apple announced they were refusing his app for lack of deep-rooted medical credentials.
- iv. Dr Roberts discovered numerous heart attack genes, was CEO of a major Heart Institute, personally signed off on John Glenn's space flight, authored medical textbooks, and directed the Nobel prize committee for mathematics. In his words, if Apple said he lacked "deep rooted" credentials for a COVID app, who was safe from Apple?
- v. To the extent Apple attempts to portray a startup as distinct from his own credentials, Roberts dismissed that with a historical perspective. Penicillin was invented by a "startup" with deep-rooted medical credentials, as were many of the most important inventions since the Industrial Revolution. In short, for Apple to claim an institution has some unique ability to contribute to medical science, that an individual startup lacks, is not historically accurate.

- vi. Roberts asserted that society lost from Apple's refusal, in that critical epidemiological data was forever lost.
- vii. Roberts brainstormed that the app might have helped him elucidate long term cardiac complications of COVID.
- viii. Roberts stated that, though he is not a lawyer, he doesn't feel Apple should be allowed to do what they did.

77. Upon information and belief, Plaintiff and its attorney have been made aware of no less than half a dozen similar arbitrary app rejections. App developers who recognize this pattern of antitrust behavior have been noticed to contact Plaintiff's attorney for inclusion as a class action.

V. CAUSES OF ACTION

COUNT I **Sherman Act Section 2**

78. Plaintiff repeats and re-alleges each and every allegation contained herein as if fully stated under this count.

79. Apple's conduct violates Section 2 of the Sherman Act, which prohibits "monopolization of any part of the trade of commerce among the several States, or with foreign nations. 15 U.S.C. Section 2

80. The iOS App Store is an antitrust market as defined under antitrust precedent.

81. Apple unlawfully maintains its monopoly power in the iOS App Store through its unlawful denial of access to Coronavirus Reporter.

82. Apple serves as a *de facto* access point to the national internet backbone, and its anticompetitive behavior prevents taxpayers from accessing the internet via apps such as Coronavirus Reporter.

83. Apple has some reasonable right to quality control and law enforcement via its App Store.
84. Disallowing Dr Roberts from offering his COVID bioinformatics app is not a reasonable right Apple has. In fact, time has shown that Apple's contact tracing app was largely untenable in major markets including the United States, and the country and taxpayers would have benefitted from increased competition among apps, such as Coronavirus Reporter. There existed no valid reason for Apple to block the Plaintiff's medical application from the public. Apple did not have "superior expertise" or ability to "foretell COVID" even though it acted like it did.
85. Not only does Apple prevent developers from selling their product to Apple customers through the App Store they control; Apple in conjunction with Google produced their own contact-tracing software shortly after Coronavirus Reporter was disallowed. The control of a marketplace where Apple even competes calls for increased scrutiny to this alleged violation of the Sherman Act.
86. The public and the taxpayer would have benefitted from the vast expertise of Roberts and his team to assist in the early days of COVID.
87. As the creator of an app with temporarily limited commercial liability, Coronavirus Reporter was harmed by Apple's anti-competitive conduct in a manner that the antitrust laws, and moreover recent COVID laws, were intended to prevent.
88. Apple disallows applications in an arbitrary and capricious manner to benefit their own monopoly and their business and contract partners.

COUNT II
Sherman Act Section 1

89. Plaintiff repeats and re-alleges each and every allegation contained herein as if fully stated under this count.
90. Apple's conduct violates Section 1 of the Sherman Act, which prohibits "[e]very contract, combination in the form of trust or otherwise, or conspiracy, in restraint of trade of commerce among the several States, or with foreign nations." 15 U.S.C. § 1.
91. The Apple Developer Agreement and the terms of the App Store Review Guidelines unreasonably restrain competition between Apple users of different states attempting to access the national and global internet backbone.
92. Apple's conduct and unlawful contractual restraints affects a substantial proportion of the population, approximately 60-80% of internet commerce and information exchange.
93. Apple's conduct and ability to arbitrarily determine which applications will or will not be published has substantial anti-competitive effects, including here the full destruction of Plaintiff's work-product.
94. Under Apple's forced contracts and policies, countless independent developers have been injured in the same way described in this lawsuit.
95. The restraint in this case is even more severe than it may appear on face value because this application is only useful if it achieves a critical mass of users. Apple's disallowment prevented Coronavirus Reporter from realizing its full potential on any available marketplace. In other words, non-Apple users would have a product with reduced functionality, because of Apple's antitrust behavior.
96. Apple's conduct caused Plaintiff substantial injury. Competitor apps that were allowed in March 2020 obtained millions of downloads and a top rank in the App Store, demonstrating the strong demand for COVID information applications at that time.

97. Evidence is irrefutable that Apple green-lit an almost identical app, Zoe created by Guy St Thomas and Kings College London, and other later contributors.
98. Ironically, after all of these years Apple forgot it was founded in the garage of two independent inventors, the legendary American entrepreneurs Steve Jobs and Steve Wozniak. There was no good reason, decades later, for Apple to mandate that only institutions may contribute to the COVID emergency. This defies Apple's own means of creation. The public can choose which app authors they wish to use, and it is more than evident that Plaintiff's app, at a time when no other COVID apps existed, would have been downloaded by millions. Here, Apple unlawfully put its thumb on the scales, destroying any chance that Coronavirus Reporter had to participate in the open and free information exchange afforded by the internet. To prevent these harms, this Honorable Court shall permanently enjoin the aforementioned anti-competitive behavior.

COUNT III
BREACH OF CONTRACT

99. Plaintiff repeats and re-alleges each and every allegation contained herein as if fully stated under this count.
100. Plaintiff and Defendant had entered into a contract, notwithstanding the aforementioned components whereby Plaintiff had no real choice as to the terms.
101. Apple's Developer Agreement as amended in March 2020 promised that entities with "deeply rooted medical credentials" were permitted to publish COVID apps on the App Store.
102. Dr Robert Roberts has deep rooted medical credentials.

103. A startup is an entity, with credentials equal to or greater than the sum of the intrinsic and inherent credentials possessed by its founders. In other words, common sense dictates that a startup headed by Dr Roberts has at least the credentials of Dr Roberts. A startup logically cannot have less, or fewer, credentials than its founders. Hence, Plaintiff is a startup, or corporate entity with deep credentials.

104. Plaintiff's small team of experts was comparable to the development team sizes of other apps Apple permitted to be published on the App Store. Namely, the Zoe Guys' St Thomas app was developed primarily by two scientists, and though they possessed impressive medical credentials, they did not have some sort of credential that would legally amount to "more deeply rooted" or unilaterally above and beyond Dr Roberts' expertise.

105. Dr Robert Roberts extensive CV (Exhibit A) was provided to Apple leadership, documenting his deep rooted medical credentials.

106. Apple willfully ignored Dr Roberts' credentials, and therefore, the deep-rooted credentials of his organization, Coronavirus Reporter.

107. As Chief Medical Officer of Coronavirus Reporter, Dr Roberts had absolute authority over the medical app.

108. As Dr Roberts noted in his CNBC interview, many inventions throughout the history of the industrial revolution and modern medicine were produced by "startup" entities comprised of one or two scientist inventors.

109. As such, historic and reasonable interpretation of "deep rooted" credentials sufficient for important inventions supports a contract interpretation favorable to Plaintiff.

110. Apple breached their own Developer Agreement when they refused to allow an entity with deep-rooted medical expertise to publish on the App Store.
111. This refusal to publish directly caused the damages described in this Amended Complaint. Refusal to publish of Coronavirus Reported entailed blocking access to the national internet backbone.
112. A baseline estimate of contractual losses assumes Coronavirus Reporter lost five million users/day over a two-year period, because rival apps with nearly identical functionality that launched months later easily obtained this milestone. Based on comparable analysis of COVID media channel revenue rates, spanning from television news networks providing COVID news (e.g. CNN) to websites to apps, Coronavirus Reporter would have generated no less than two hundred million dollars of income, had it been properly allowed. To the extent Plaintiff would have re-invested that income into COVID research, further accumulative losses to society are hereby alleged.

COUNT IV
BREACH OF THE COVENANT OF GOOD FAITH AND FAIR DEALING

113. Plaintiff repeats and re-alleges each and every allegation contained herein as if fully stated under this count.
114. In choosing to develop an app for Defendant's Apple iPhone, Plaintiff relied on the covenant of good faith and fair dealing.
115. In every contract there is an implied covenant of good faith and fair dealing by each party not to do anything which will deprive the other parties of the benefits of the contract, and a breach of this covenant by failure to deal fairly or in good faith gives rise to an action for damages.

116. Indeed, Apple breached the covenant when, during an international pandemic emergency, they disregarded established medical hierarchies and blocked Dr Roberts from using the internet to help people disseminate epidemiological data.

117. Apple had been on a mission, for at least two years, to make their own mark in medicine, with Mr. Cook declaring Apple's greatest contribution to mankind would be in medicine.

118. There was no good faith when Apple focused on their own success, and blocked a research professor such as Dr Roberts, who had saved countless lives through his lifelong dedication to the field of cardiology.

119. Apple's breach of the covenant caused substantial damages to Plaintiff and well beyond, blocking Dr Roberts app from playing its role in the reduction of its potential to help reduce SARS-CoV-2 coronavirus transmission.

WHEREFORE, The Plaintiff respectfully requests that this Honorable Court:

- A. Order damages in excess of two hundred million dollars, based on comparable analysis of similar coronavirus information media distribution channels, under the jurisdictional authority of this Court;
- B. Award treble damages under Antitrust Law, and in light of the probable loss of life caused by Defendant Apple's anticompetitive behavior, amounting to six hundred million dollars,
- C. Issue a permanent injunction under the Sherman Act restraining Defendant's App Store from restricting reasonable applications from access to the global internet;
- D. Grant any further relief as may be fair and just.

Respectfully submitted, this 3rd day of March 2021.

/s/ Keith Mathews
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CERTIFICATE OF SERVICE

I, Keith Mathews, do declare as follows:

I certify that a copy of the foregoing was delivered electronically to counsel for the Defendants with counsel, and emailed to those without known counsel.

Executed on this 3rd day of March 2021.

/s/ Keith Mathews
Keith Mathews
Attorney for Plaintiff